

By the Numbers

573,000 BTU heat output

30,000 sq. ft. area heated

3 MeSys Pellematic-56 pellet boilers

26-ton pellet silo

75 tons of pellets consumed/year

\$20,000 in annual fuel savings

\$300,000 in total costs

Hawlemont Regional Elementary School

Hawlemont Regional Elementary School is part of the Mohawk Trail Regional School District and serves 125 students, primarily from the towns of Hawley and Charlemont. The school integrates agricultural and experiential learning into the curriculum.

In October 2016, Hawlemont installed three wood pellet boilers. The oil system was reaching the end of its service life and now functions merely as a back-up heat source, while the pellet boilers provide 90% of heating needs. The boilers are low emission and fully automated. The self-modulating system can turn on one or more of the boilers as needed to satisfy demand.

Prior to installation of the pellet system, the school spent more than \$50,000 per year to heat with oil, typically consuming nearly 17,000 gallons. The school estimates that the new wood pellet system will reduce oil usage by 90% and save an estimated \$20,000 in fuel each year.

By making this necessary heating system replacement with a pellet boiler, the project was eligible for a DOER SAPHIRE grant. The grant covered 75% of the total cost. The SAPHIRE program promotes renewable thermal heating and cooling and efficiency upgrades in public schools and state public housing.

Hawlemont commissioned a feasibility study for the new system in March 2015 and was awarded SAPHIRE funding in April 2015. With approval from the towns of Hawley and Charlemont, design proposals were solicited in late summer/early fall of 2015. WV Engineering of Keene NH was awarded the contract to oversee the design and construction. After being re-bid in the spring, the construction contract was awarded to B-G Mechanical and the system began operating in October 2016.

Hawlemont Regional School
10 School St
Charlemont, MA 01339



Pellet Boilers



Pellet Silo